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PTO/SB/52 (06-03)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>REISSUE APPLICATION DECLARATION BY THE ASSIGNEE</b>		Docket Number (optional) 91082
I hereby declare that: The residence, mailing address and citizenship of the inventors are stated below. I am authorized to act on behalf of the following assignee: <u>Andrew Corporation</u> and the title of my position with said assignee is: <u>Vice President, Law and Secretary</u> and the title of my position with said assignee is: _____ The entire title to the patent identified below is vested in said assignee.		
Inventor Peter Mailandt		Citizenship US
Residence/Mailing Address 8635 North Stemmons Freeway, Dallas, Texas		
Inventor Tan Huynh		Citizenship US
Residence/Mailing Address 2809 Naples Drive, Hurst, Texas		
<input type="checkbox"/> Additional Inventors are named on separately numbered sheets attached hereto.		
Patent 5,917,455		Date of Patent Issued June 29, 1999
Title of Invention Electrically Variable Beam Tilt Antenna		
I believe said inventor(s) to be the original and first inventor(s) of the subject matter which is described and claimed in said patent, for which a reissue patent is sought on the invention entitled: <u>Electrically Variabke Beam Tilt Antenna</u> the specification of which <input checked="" type="checkbox"/> is attached hereto. <input type="checkbox"/> was filed on _____ as reissue application number _____ and was amended on _____ (If applicable) I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56. <input type="checkbox"/> I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b). Attached is form PTO/SB/2B (or equivalent) listing the foreign applications. I verily believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (Check all boxes that apply.) <input checked="" type="checkbox"/> by reason of a defective specification or drawing. <input type="checkbox"/> by reason of the patentee claiming more or less than he had the right to claim in the patent. <input type="checkbox"/> by reason of other errors.		

[Page 1 of 2]

This collection of information is required by 37 CFR 1.175. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete., including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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<b>REISSUE APPLICATION DECLARATION BY THE ASSIGNEE</b>		Docket Number (Optional) <b>91082</b>	
At least one error upon which reissue is based is described as follows: See Attached Sheet			
[Attach additional sheets, if needed.] All errors corrected in this reissue application arose without any deceptive intention on the part of the applicant.			
I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact			
Name(s) <b>Eric D. Cohen</b>		Registration Number <b>38,110</b>	
See Attached Sheet for Additional Appointed Attorneys			
Correspondence Address: Direct all communications about the application to:			
<input type="checkbox"/> Customer Number <div></div>			
<b>OR</b>			
<input checked="" type="checkbox"/> Firm or Individual Name	<b>Eric D. Cohen</b>		
Address	<b>Welsh &amp; Katz, Ltd.</b>		
Address	<b>120 South Riverside Plaza, 22nd Floor</b>		
City	<b>Chicago</b>	State	<b>IL</b>
		Zip	<b>60606</b>
Country	<b>US</b>		
Telephone	<b>312-655-1500</b>	Fax	<b>312-655-1501</b>
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this declaration is directed.			
Full name of person signing (given name, family name) <b>James F. Petelle</b>			
Signature		Date  <b>, 2004</b>	
Address of Assignee <b>Andrew Corporation, 10500 West 153rd Street, Orland Park, Illinois 60462</b>			

**First Continuation Sheet From Page 2 of**  
**Reissue Application Declaration by the Assignee**

At least one error upon which the subject non-broadening reissue application is based is described below:

We believe that the original Patent No. 5,917,455 (The '455 Patent) is partly inoperative or invalid by reason of a defective specification. I further believe that the '455 patent is partly inoperative or invalid due to an error which was committed without any deceptive intent. This reissue application is based on the error that, for example, issued claim 1 contained in the original '455 patent is defective in that it claims:

1. An antenna assembly having an operating frequency and a vertical radiation pattern with a main lobe axis defining a downtilt angle with respect to the earth's surface, the antenna assembly comprising:

a plurality of antenna means in first, second, and third antenna groups disposed along a backplane, the backplane having a longitudinal axis along which the antenna means are disposed;

phase adjustment means disposed between the second and third antenna groups configured to simultaneously advance a phase angle of a signal to one of said second and third antenna groups and delay the phase angle of said signal to the other of said second and third antenna groups;

such that adjustment of the phase adjustment means results in variation of the vertical radiation pattern downtilt angle.

instead of claiming, as stated in claim 1 as amended below and submitted herewith:

1. (once amended) An antenna assembly having an operating frequency and a vertical radiation pattern with a main lobe axis defining a downtilt angle with respect to the earth's surface, the antenna assembly comprising:

a plurality of antenna means in first, second, and third antenna groups disposed along a backplane, the backplane having a longitudinal axis along which the antenna means are disposed;

phase adjustment means disposed between the first [second] and third antenna groups configured to simultaneously advance a phase angle of a signal to one of said first [second] and third antenna groups and delay the phase angle of said signal to the other of said first [second] and third antenna groups;

such that adjustment of the phase adjustment means results in variation of the vertical radiation pattern downtilt angle.

**Second Continuation Sheet From Page 2 of**  
**Reissue Application Declaration by the Assignee**

We hereby appoint the following attorneys to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: Eric D. Cohen, Reg. No. 38,110; A. Sidney Katz, Reg. No. 24,003; Richard L. Wood, Reg. No. 22,839; Jerold B. Schnayer, Reg. No. 28,903; Eric C. Cohen, Reg. No. 27,429; Joseph R. Marcus, Reg. No. 25,060; Gerald S. Schur, Reg. No. 22,053; Gerald T. Shekleton, Reg. No. 27,466; James A. Scheer, Reg. No. 29,434; Daniel R. Cherry, Reg. No. 29,054; Reg. No. 22,190; Edward P. Gamson, Reg. No. 29,381; Kathleen A. Rheintgen, Reg. No. 34,044; Thomas W. Tolpin, Reg. No. 27,600; Jon P. Christensen, Reg. No. 34,137, Walter J. Kawula, Jr., Reg. No. 39,724; Philip D. Segrest, Jr., Reg. No. 39,021; Mitchell J. Weinstein, Reg. No. 37,963; and Jeffrey W. Salmon, Reg. No. 37,435

**CERTIFICATE UNDER 37 C.F.R. 3.73(b)**Applicants: Tan D. Huynh and Peter MailandtApplication No.: 08/747,627 Filed: November 13, 1996Entitled: Electrically Variable Beam Tilt Antenna

Andrew Corporation a corporation of Delaware  
(Name of Assignee) (Type of Assignee, e.g. corporation, partnership, university, government, agency, etc.)

certifies that it is the assignee of the entire right, title, and interest in the patent application identified above by the virtue of either:

A. ☐ An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

**OR**

B. ☒ A chain of title from the inventor(s), of the patent application identified above, to the current assignee as shown below:

1. From: Tan D. Huynh To: Allen Telecom Group, Inc.

The document was recorded in the Patent and Trademark Office at Reel 008304, Frame 0931, or for which a copy thereof is attached.

2. From: Peter Mailandt To: Allen Telecom Group, Inc.

The document was recorded in the Patent and Trademark Office at Reel 008304, Frame 0931, or for which a copy thereof is attached.

3. From: Allen Telecom Group, Inc. To: Allen Telecom Inc. (via merger and change of name)  
the document was recorded in the Patent and Trademark Office at Reel 008400, Frame 0477

4. From: Allen Telecom Inc. To: Adirondacks, LLC

The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

5. From: Adirondacks, LLC To: Allen Telecom LLC (via merger and name change), a copy of which is attached

6. From: Allen Telecom LLC To: Andrew Corporation, a copy of which is attached

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☒ Copies of assignments or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

\_\_\_\_\_  
Date

James F. Petelle

\_\_\_\_\_  
Signature

Vice President Law and Secretary

\_\_\_\_\_  
Title

11/12  
**Patent Assignment Abstract of Title**  
**NOTE: Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.**

**Total Assignments: 2**

**Patent #:** 5917455 **Issue Dt:** 06/29/1999 **Application #:** 08747627 **Filing Dt:** 11/13/1996

**Inventors:** TAN D. HUYNH, PETER MAILANDT

**Title:** ELECTRICALLY VARIABLE BEAM TILT ANTENNA

**Assignment: 1**

**Reel/Frame:** 008304/0931

**Recorded:** 11/13/1996

**Pages:** 2

**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

**Assignors:** HUYNH, TAN D.

**Exec Dt:** 11/12/1996

MAILANDT, PETER

**Exec Dt:** 11/12/1996

**Assignee:** ALLEN TELECOM GROUP, INC.

30500 BRUCE INDUSTRIAL PARKWAY  
SOLON, OHIO 44139

**Correspondent:** LAFF, WHITESEL, CONTE & SARTE, LTD.

JOHN W. HAYES  
401 NORTH MICHIGAN AVENUE  
CHICAGO, IL 60611-4212

**Assignment: 2**

**Reel/Frame:** 008400/0477

**Recorded:** 03/14/1997

**Pages:** 5

**Conveyance:** MERGER AND CHANGE OF NAME

**Assignor:** ALLEN TELECOM GROUP, INC. A DELAWARE CORPORATION

**Exec Dt:** 02/18/1997

**Assignee:** ALLEN TELECOM, INC.

25101 CHAGRIN BOULEVARD  
BEACHWOOD, OHIO 44122

**Correspondent:** LAFF, WHITSEL, ET.AL.

MARSHALL W. SUTKER  
ATTORNEYS AT LAW  
401 NORTH MICHIGAN AVENUE  
CHICAGO, IL 60611-4212

Search Results as of: 12/23/2003 3:02:11 P.M.

If you have any comments or questions concerning the data displayed, contact OPIR / Assignments at 703-308-9723  
Web interface last modified: Oct. 5, 2002

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01-23-1997

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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

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08/747627

To the Honorable Commissioner of Patents

100346548

1ed original documents or copy thereof.

## 1. Name of conveying party(ies):

Tan D. Huynh  
Peter MailandAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 2. Name and address of receiving party(ies)

Name: ALLEN TELECOM GROUP, INC.

Internal Address: 19150 N. S. PTD



01/22/97

Street Address: 30500 Bruce Industrial Parkway  
Solon, OH 44139-3996Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: November 12, 1996

## 4. Application number(s) or patent number(s):

ATTORNEY DOCKET NO.: 1109-00325

If this document is being filed together with a new application, the execution date of the application is: November 11 &amp; 12, 1996

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

LAFF, WHITESEL CONTE &amp; SARET, LTD.

ATTORNEYS AT LAW

401 NORTH MICHIGAN AVENUE  
CHICAGO, ILLINOIS 60611-4212Direct Telephone Calls to: John W. Hayes  
at telephone No. (312) 661-2100. Fax (312) 661-0029

## CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231 on

Date: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TYPED NAME:

## 6. Total number of applications and patents involved:

1

## 7. Total fee (37 CFR 3.41).....\$ 40.00

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

## 8. Deposit account number: 12-0064

(Attach duplicate copy of this page if paying by deposit account)

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## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

John W. Hayes

Name of Person Signing

Signature

11/13/96

Date

Total number of pages including cover sheet, attachments, and document:

2

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Commissioner of Patents and Trademarks, Box Assignments

Washington, D.C. 20231

FBI 8304 FRAME: 0931

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# ASSIGNMENT

1100-00325  
LAFF, WHITESEL, CONTE & SARET, LTD.  
Attorneys at Law  
401 N. Michigan Avenue  
Chicago, Illinois 60611

08/797627

FOR VALUE RECEIVED, the receipt of which is hereby acknowledged, the following inventor or inventors (hereinafter called "ASSIGNOR")

Peter Mailandt  
5502 Golf Drive  
Dallas, Texas 75205

Tan D. Huynh  
2809 Naples Drive  
Hurst, Texas 76054

hereby assign, transfer and set over to:

ALLEN TELECOM GROUP, INC., 30500 Bruce Industrial Parkway, Solon, OH 44139-3996

(hereinafter called "ASSIGNEE"), the entire worldwide right, title and interest in and to the invention known as:

## ELECTRICALLY VARIABLE BEAM TILT ANTENNA

for which a United States Patent Application was executed November 11 & 12, 1996, and all rights and privileges under any Letters Patent which may be granted thereon, including all rights, if any, throughout the entire world to sue for all past infringements which may have occurred before the execution of this assignment.

(1) The ASSIGNOR agrees without charge to said ASSIGNEE but at its expense (a) to execute (i) all necessary papers to be used in connection with this application and any additional, continuing, or divisional applications, as the ASSIGNEE may deem necessary or expedient, (ii) all papers in connection with any interference or other legal or quasi-legal proceedings relating to this application or any additional, continuing, or divisional application thereof, (iii) all papers and documents which may be necessary in connection with the preparation and filing of any foreign applications or with making claims to priority rights granted under the provisions of the International Convention for Protection of Industrial Property or similar agreements; (b) to cooperate with ASSIGNEE in every way possible in obtaining evidence and going forward in any such proceedings; and (c) to perform all other affirmative acts which may be necessary or desirable to obtain a grant of a valid patent for said invention in any country throughout the world.

(2) ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and the appropriate officials in any other country, to issue any and all Letters Patent that may be granted upon any patent application or any additional, continuing or divisional applications thereof to the ASSIGNEE, its successor and assigns.

(3) ASSIGNOR hereby covenants and warrants that he has full right to convey the entire right, title and interest by this instrument, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.

(4) ASSIGNOR hereby grants to the law firm of LAFF, WHITESEL, CONTE & SARET, LTD. of Chicago, Illinois, authority and power to insert on this instrument any further identification which may be necessary or desirable for purposes of recordation in the United States Patent and Trademark Office or a Patent Office of any foreign country.

  
Peter Mailandt


State of TEXAS )  
County of Dallas ) SS.

### ACKNOWLEDGMENT

I do hereby certify that the above-identified ASSIGNOR(s), personally known to me to be the same person or persons who signed the foregoing instrument, appeared before me this day in person, and acknowledged that the said instrument was signed and delivered as the free and voluntary act of the ASSIGNOR(s), for the uses and purposes therein set forth.

Given under my hand and seal, this 12th day of November, 1996.

  
NANCY C. WRIGHT  
NOTARY PUBLIC  
State of Texas  
Comm. Exp. 10-11-97


  
Notary Public  
My Commission Expires: 10-11-97

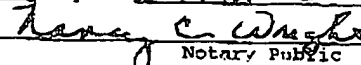
State of TEXAS )  
County of Dallas ) SS.

### ACKNOWLEDGMENT

I do hereby certify that the above-identified ASSIGNOR(s), personally known to me to be the same person or persons who signed the foregoing instrument, appeared before me this day in person, and acknowledged that the said instrument was signed and delivered as the free and voluntary act of the ASSIGNOR(s), for the uses and purposes therein set forth.

Given under my hand and seal, this 12th day of November, 1996.

  
NANCY C. WRIGHT  
NOTARY PUBLIC  
State of Texas  
Comm. Exp. 10-11-97

  
Notary Public  
My Commission Expires: 10-11-97

[seal]  
RECORDED: 11/13/1996

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1 SHEET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

MAR 14 1997

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T the Honorable Commissioner of

1003-9103

attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Allen Telecom Group, Inc., a Delaware corporation

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☐ Assignment☒ Merger☐ Security Agreement☒ Change of Name☐ Other

Execution Date: February 18, 1997

## 2. Name and address of receiving party(ies)

Name:

Allen Telecom Inc.,  
a Delaware corporation

Internal Address:

Street Address:

25101 Chagrin Boulevard  
Beachwood, Ohio 44122Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application number(s) or patent number(s):

ATTORNEY DOCKET NO.: 1109/10238

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

## A. Patent Application No.(s)

## B. Patent No.(s)

08/747,627 filed November 13, 1996

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

LAFF, WHITESEL, CONTE &amp; SARET, LTD.

ATTORNEYS AT LAW

401 NORTH MICHIGAN AVENUE  
CHICAGO, ILLINOIS 60611-4212Direct Telephone Calls to: Marshall W. Sucker  
at telephone No. (312) 661-2100. Fax (312) 661-0029

## CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231 on

Date: 3/10/97

TYPED NAME: Marshall W. Sucker

## 6. Total number of applications and patents involved:

1

## 7. Total fee (37 CFR 3.41).....\$ 40.00

☒ Enclosed☐ Authorized to be charged to deposit account

## 8. Deposit account number: 518500647 (2747527)

Fee: 40.00

(Attach duplicate copy of this page if paying by deposit account)

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## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Marshall W. Sucker

Name of Person Signing

Signature

March 10, 1997

Date

Total number of pages including cover sheet, attachments, and document:

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Commissioner of Patents & Trademarks, Box Assignments

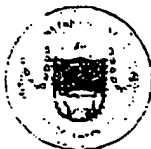
Washington, DC 20231: 8400 FRAME: 0477

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Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"ALLEN TELECOM GROUP, INC.", A DELAWARE CORPORATION,  
WITH AND INTO "THE ALLEN GROUP INC." UNDER THE NAME OF  
"ALLEN TELECOM INC.", A CORPORATION ORGANIZED AND EXISTING UNDER  
THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS  
OFFICE THE TWENTIETH DAY OF FEBRUARY, A.D. 1997, AT 10 O'CLOCK  
A.M.



  
Edward J. Freel, Secretary of State

0701327 8100M

971065741

AUTHENTICATION:

8351085

DATE:

PATENT 02-27-97

REFIL: 8400 FRAME: 0478

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U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

PATENTS ONLY

cket No.: 91082

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To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Adir ndacks, LLC

2. Name and address of receiving party(ies):

Name: Allen Telecom LLC

Address: 10500 West 153rd Street

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☐ Assignment

☒ Merger

☐ Security Agreement

☒ Change of Name

☐ Other

City: Orland Park

State/Prov.: IL

Country: US

ZIP: 60462

Execution Date: July 15, 2003

Additional name(s) & address(es)

☐ Yes ☒ No

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

Patent Application No.

Filing date

B. Patent No.(s)

5,917,455

Additional numbers

☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Eric D. Cohen

Registration No. 38,110

Address: Welsh & Katz, Ltd.

120 South Riverside Plaza

22nd Floor

City: Chicago

State/Prov.: IL

Country: US

ZIP: 60606

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

☐ Authorized to be charged to deposit account

8. Deposit account number:

23-0920

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Eric D. Cohen, Reg. No. 38,110

Name of Person Signing

Signature

December 24, 2003

Date

1

Total number of pages including cover sheet, attachments, and

# Delaware

PAGE 1

*The First State*

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES

"ALLEN TELECOM INC.", A DELAWARE CORPORATION,

WITH AND INTO "ADIRONDACKS, LLC" UNDER THE NAME OF "ALLEN TELECOM LLC", A LIMITED LIABILITY COMPANY ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE FIFTEENTH DAY OF JULY, A.D. 2003, AT 1:34 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.

352549 3100M

030452732

*Harriet Smith Windsor*  
HARRIET SMITH WINDSOR, SECRETARY OF STATE

AUTHENTICATION 2523237

DATE 07-15-03

State of Delaware  
Secretary of State  
Division of Corporations  
Delivered 01:38 PM 07/15/2003  
FILED 01:34 PM 07/15/2003  
SRV 030462732 - 3626149 FILE

**CERTIFICATE OF MERGER  
OF  
ALLEN TELECOM INC.  
INTO  
ADIRONDACKS, LLC**

The undersigned, ADIRONDACKS, LLC (the "Company"), organized and existing under and by virtue of the Delaware Limited Liability Company Act (the "Act"),

**DOES HEREBY CERTIFY:**

**FIRST:** That the name and state of incorporation of each of the constituent companies of the merger are as follows:

<u>Name</u>	<u>State of Incorporation</u>
Allen Telecom Inc.	Delaware
Adirondacks, LLC	Delaware

**SECOND:** That an agreement and plan of merger between the parties to the merger has been approved, adopted, certified, executed and acknowledged by each of the constituent companies.

**THIRD:** That the name of the surviving limited liability company of the merger is Adirondacks, LLC.

**FOURTH:** That the certificate of formation of Adirondacks, LLC shall be the certificate of formation of the surviving Delaware limited liability company.

**FIFTH:** That the certificate of formation be amended so the Article FIRST shall read as follows:

"FIRST: The name of the limited liability company shall be Allen Telecom LLC."

**SIXTH:** That the executed agreement and plan of merger is on file at the principal place of business of the surviving limited liability company. The address of the principal place of business of the surviving limited liability company is 10500 West 153<sup>rd</sup> Street, Orland Park, Illinois 60562.

SEVENTH: That a copy of the agreement and plan of merger will be furnished by the surviving entity, on request and without cost, to any stockholder of the corporation.

DATED: JULY 15, 2003

Adirondacks, LLC

By: /s/ Charles R. Nicholas

Name: Charles R. Nicholas

Its: Manager

Allen Telecom Inc.

By: /s/ Robert G. Paul

Name: Robert G. Paul

Its: President and CEO

ASSIGNMENT

WHEREAS, Allen Telecom Inc. having a place of business at 8635 North Stemmons Freeway, Dallas, Texas 75247 (formerly of Beachwood, Ohio), a corporation organized under the laws of the State of Delaware, was the owner of the entire right, title and interest in U.S. Patent No. 5,917,455 entitled Electrically Variable Beam Tilt Antenna, and inventions covered thereby;

WHEREAS, Allen Telecom Inc. was merged by statute, on July 15, 2003, into Adirondacks LLC, a corporation organized and existing under the laws of Delaware, having its principal place of business at 10500 West 153rd Street, Orland Park, Illinois 60462, and did, pursuant to said statutory merger, sell, assign, transfer and set over unto Adirondacks LLC, the entire right, title and interest of Allen Telecom Inc. in and to the above-identified Patent and invention covered thereby as of July 15, 2003.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

In order to make and record a specific formal assignment of the above-identified Patent from Allen Telecom Inc. to Adirondacks LLC *nunc pro tunc* as of the date of the statutory merger of Allen Telecom Inc. into Adirondacks LLC,

Be it known that in consideration of the payment by Adirondacks LLC to Allen Telecom Inc. of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, Allen Telecom Inc. has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, as of the July 15, 2003, to Adirondacks LLC, the full and exclusive right, title and interest to said invention and all Letters Patent of the United States to be obtained therefor on said patent or any patent applications, continuations, divisions, renewals, substitutes or reissues thereof for the full term or terms for which the same may be granted, together with all claims for damages by reason of past infringement of said Patent with the right to sue for and collect the same for its own use and for the use of its successors, assigns or other legal representatives.

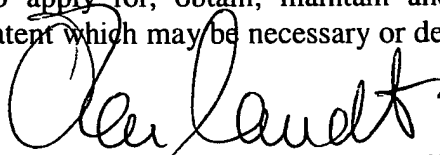
Allen Telecom Inc. also assigns all of its right, title and interest in and to said invention in all foreign countries, and all applications for Letters Patent which may evolve or evolved therefrom, including the right to claim International Convention priority.

Allen Telecom Inc. hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

Allen Telecom Inc. further covenants that Adirondacks LLC will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to Allen Telecom Inc. and Allen Telecom Inc. will testify as to the same in any interference or litigation related thereto and

will promptly execute and deliver to Adirondacks LLC or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said applications, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

Date Dec 16, 2003

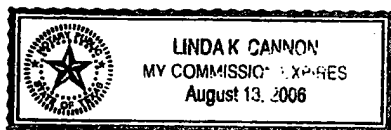


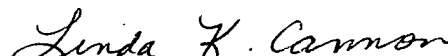
Peter Mailandt  
President of Decibel Products  
Allen Telecom Inc.

State of Texas )  
 ) ss:  
County of Dallas )

I hereby certify that Peter Mailandt before me personally appeared and acknowledged that the foregoing Assignment was duly signed, sealed and delivered by him as his free and voluntary act on this 16<sup>th</sup> day of December, 2003.

(Notarial Seal)



  
Notary Public

My commission expires:

8-13-06



91082

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Reissue Appln. of U.S. Pat. No. 5,917,455      Group No.:      Not yet assigned

Applicant:      Huynh and Mailandt      Examiner:      Not yet assigned

Serial No.:      Not yet assigned

Filed:      Herewith      Attorney  
Docket No.:      7836-91082

For: ELECTRICALLY VARIABLE  
BEAM TILT ANTENNA

ASSENT OF ASSIGNEE TO REISSUE APPLICATION

Mail Stop Reissue  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, Virginia 22313-1450

Sir or Madam:

Andrew Corporation is the assignee of the entire right, title and interest in this reissue application, which is based on Patent No. 5,917,455, issued June 29, 1999, by virtue of a chain of title from the inventor of the subject matter disclosed and claimed in this application as set forth hereafter. The assignment documents evidence the transfer from Tan D. Huynh and Peter Mailandt (inventors) to Allen Telecom Group, Inc., then from Allen Telecom Group, Inc. to Allen Telecom Inc. (via merger and change of name), then from Allen Telecom Inc. to Adirondacks, LLC, then from Adirondacks, LLC to Allen Telecom LLC (via merger name change), and then from Allen Telecom LLC to Andrew Corporation.

I have reviewed all the documents in the chain of title of this application and, to the best of my knowledge and belief, title is in the above-referenced assignee. I aver that I am empowered to sign this document on behalf of Andrew Corporation. I understand that Andrew Corporation also assents to this reissue application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made upon information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Andrew Corporation

---

By: James F. Petelle

Title: Vice President, Law and Secretary

Date: \_\_\_\_\_, 2004

PATENTS ONLY

Tab settings: ▽ ▽ ▽ ▽ ▽ ▽ ▽ ▽ ▽ ▽

To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Allen Telecom, LLC (formerly Adirondacks LLC)

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

Execution Date: December 4, 2003

2. Name and address of receiving party(ies):

Name: Andrew Corporation

Internal Address:

Street Address: 10500 West 153rd Street

City: Orland Park State: IL ZIP: 60462

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

5,917,455

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Eric D. Cohen

Internal Address:

Street Address: 120 South Riverside Plaza

22nd Floor

City: Chicago State: IL ZIP: 60606

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

☐ Authorized to be charged to deposit account

8. Deposit account number:

23-0920

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Eric D. Cohen, Reg. No. 38,110

Name of Person Signing

Signature

December 19, 2003

Date

Total number of pages including cover sheet, attachments, and document:

2

Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignment Recordation Services

Director of the United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450

ASSIGNMENT

WHEREAS, Allen Telecom LLC (formerly Adirondacks LLC), having a principal place of business at 10500 West 153rd Street, Orland Park, Illinois 60462, a corporation organized and existing under the laws of Delaware, hereinafter referred to as ASSIGNOR, is the owner of the entire right, title and interest in U.S. Patent No. 5,917,455 entitled Electrically Variable Beam Tilt Antenna, and inventions covered thereby;

WHEREAS, Andrew Corporation, a corporation organized and existing under the laws of Delaware, having its principal place of business at 10500 West 153rd Street, Orland Park, Illinois 60462 hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire interest in, to and under said invention and said U.S. Patent No. 5,917,455:

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

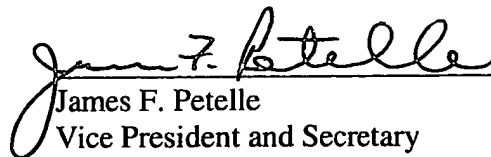
Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to U.S. Patent No. 5,917,455, and all continuations, divisions, renewals, substitutes or reissues thereof for the full term or terms for which the same may be granted.

ASSIGNOR also assigns all of its right, title and interest in and to said invention and U.S. Patent No. 5,917,455 in all foreign countries, and all applications for Letters Patent which may evolve therefrom, including the right to claim International Convention priority.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR and ASSIGNOR will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said applications, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

Date: 4 Dec. 2003

  
James F. Petelle  
Vice President and Secretary  
Allen Telecom LLC